

MICHAJLOW, W.

Biological problems of "parasite-host" relations. Wiadomosci
parazyt., 7 no. 4/6:695-707 '61.

1. Department of Parasitology, Polish Academy of Sciences, Warsaw.
(PARASITIC DISEASES)

P/049/62/000/006/001/001
D204/D307

Some remarks on the future ...

life are mentioned briefly as illustrations of achievements and aims. Under (b), the following sociological factors are discussed: (1) population pressure, requiring an improvement in the production of food and possibly a completely new approach to this latter problem, (2) population control, (3) extension of life and improvement of human stock, (4) elimination of the harmful effects on human health of changes in the environment consequent upon the rapid expansion of technology, and (5) the personal interest of researchers inherent in the problems of the origin and nature of life, ageing, death, and the origin of man. A need for a planned program based on a broad discussion of the factors involved is underlined.

Card 2/2

P/049/62/000/006/001/001
D204/D307

AUTHOR: Michajłow, Włodzimierz

TITLE:

Some remarks on the future of biological sciences
Kosmos, no. 6, 1961, 603-610

PERIODICAL:

TEXT:

A prognosis is attempted regarding the future of scientific progress within the next 15 - 20 years, concentrating on the life sciences as the model, since these disciplines are believed to be potentially the leading ones. The approach adopted is the consideration of (a) the internal changes in science, determining this progress, and (b) the sociological conditions permitting and stimulating progress. (a) The most important recent changes are thought to be the appearance of new hybrid sciences such as biochemistry, biophysics, cybernetics and others. Great expansion of molecular biology is anticipated. The discovery of the function of nucleic acids, study of the template mechanism of heredity, synthesis of biologically important substances, study of photosynthesis, space biology, and the possibility of extraterrestrial

Card 1/2

MICHAJLOW, Wlodzimierz

On the cooperation of Polish and Soviet scientists in the
field of research on regeneration. Zesz probl nauki pol
no.18:9-11 pt.2 '59.

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MICHAJLOW, Wlodzimierz

Evolutional problems in parasitology. Wiadomosci parazyt., Warsz.
5 no.4-5:427-440 Also 407-427 1959.
(EVOLUTION) (PARASITOLOGY)

MICHAJLOW, W.

SCIENCE

Periodicals: KOSMOS. SERIA A: BIOLOGIA. Vol. 7, no. 4, 1958.

MICHAJLOW, W. Remarks on the science of nature conservation, its theoretical basis and methodology. p. 533.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4,
April 1959, Unclass.

MICHAJLOW, W.

SCIENCE

Periodicals: KOSMOS. SERIA A: BIOLOGIA. Vol. 7, no. 4, 1958.

MICHAJLOW, W. A few remarks on the problem of international scientific cooperation. p. 415.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4,
April 1959, Unclass.

MICHAJLOW, W.

SCIENCE

Periodicals: KOSMOS. SERIA A: BIOLOGIA. Vol. 7, No. 4, 1958.

MICHAJLOW, W. Parasitology and the theory of species. p. 385.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959,
Unclass.

MICHAJLOW, Wlodzimierz

Resistance of host and endoparasites and parasitological groups of
hosts versus types of host-parasite systems. Wiadomosci parazyt., Warsz.
4 no.5-6:613-614; Engl. transl. 615-616 1958.

1. Z Zakladu Parazytologii PAN w Warszawie.

(PARASITIC DISEASES, physiol.

resist. of host & Endoparasites & parasitol. groups of
hosts versus host-parasite systems (Pol))

MICHAJLOW, Wlodzimierz

Present state and trends in parasitological investigations in Poland.
Widomosci parazyt. Marsz. 4 no.4:297-307 1958.

1. Z Zakladu Parazytologii Polskiej Akademii Nauk w Warszawie.
(PARASITOLOGY,
in Poland (Pol))

WLODZIMIERZ MICHAJLOW

Contribution of parasitology to the progress of evolutionary concepts.
Wiadomosci parazyt., Warsz. 4 no.1:3-17 1958.

1. Z Zakladu Parazytologii PAN w Warszawie.

(PARASITOLOGY

contribution to evolutionary concepts (Pol))

(EVOLUTION

concepts, contribution of parasitol. (Pol))

EXCERPTA MEDICA Sec 5 Vol. 11/8 Gen. Pathology Aug 58

1818. THE INCIDENCE OF MALIGNANT TUMOURS AND THE FIGHT AGAINST CANCER IN THE PEOPLE'S REPUBLIC OF BULGARIA - Die Verbreitung bösartiger Geschwülste und ihre Bekämpfung in der Volksrepublik Bulgarien - Michailow W. and Walkow W. Onkol. Forsch. Inst., Sofia - DTSCH. GESUNDHWES. 1957, 12/51-52 (1587-1590) Tables 5
In Bulgaria the organized fight against cancer has been carried out since 1952.

In Bulgaria the organized fight against cancer was started in 1950. From Jan. 1952 there has been a compulsory registration of all cases of malignant tumour. In 1952 there were detected 4,072 malignant tumours in 100,000 inhabitants, in 1956, 9,500 cases; the population of Bulgaria is 7.6 million. Mortality from cancer was 17.8% in 1953 and 20.5% in 1956. Out of 100 cancer cases in the various localizations the percentages of deaths were: for cancer of the lung (in 1953 and 1956) 38.2 and 50.6, for cancer of the stomach 34.8 and 43.4, skin 3.7 and 4.0, oesophagus 44.0 and 39.3, rectum 20.3 and 30.8. Starting from 1956 a prophylactic examination of workers in some industrial plants and of all women over 30 will be performed.

Körbler - Zagreb (V, 16, 17)

COUNTRY : France
GAB CODE : 11940

123. JOLLI. & RABLOL., No. 1 1952, No. 2/3.

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366, 295. :

ADVISORY : The following information is for
your information only.

Page: 103

42

COUNTRY : Poland
 CATEGORY : General Biology - Evolution
 ASS. FOUR. : RZBiol., No. 1, 1955, No. 374
 AUTHOR : Michajlow, W.
 INST. :
 TITLE : Progress or regress?

ORIG. PUB. : Kosmos (Polska), 1957, AC, No 6, 395-425

ABSTRACT : It is shown that the concept of "organic progress" could develop only on the basis of the theory of evolution. A critique is presented of the various finalist and teleological definitions of this concept, which are based upon comparison of different forms with man. Adaptation of different forms to conditions of life also can not serve as a criterion of progress, since, in so doing, there are encountered unavoidable difficulties in the comparison of different groups. It is more correct to interpret progress as the capability of adaptation to a change in conditions of life (in this connection an analysis is made of the concept of apomorphosis, of

CARD: 1/3

POLAND/General Biology - Evolution.

B

Abs Jour : Ref Zhur Biol., No 6, 1959, 23710

furthermore, monovaried populations show relationships between the individuals which have no antagonistic character. The dependence between the populations of various species in one and the same parasite-carrier may have a very different character, beginning with antagonistic and even mutually-excluding to synergic. The preservation of the species in endoparasites and its further evolution thus depend on complex combinations of a variety of factors. -- A.P. Prendel'

Card 3/3

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ted for by this fertility; furthermore, an important

Card 1/3

POLAND/General Biology - Evolution.

B

Abs Jour : Ref Zhur Biol., No 6, 1959, 23710

role belongs to the individual changeability of embryos and larvae, which assures resistance to unfavorable conditions of habitat, survival, and the further development of the parasite. The most important role is played not by the relationships among individuals, but precisely by multiplicity as a factor favorable in the struggle for survival. In the period of the formation of larvae 'invasion' stages, precisely the variability of the latter (along with other properties) is the basis for natural selection, at the time of larvae contact with their hosts. The relations between the host and the parasite is characterized by mutual adaptation, which forms in the process of evolution a devinute struggle for survival; furthermore, on the action of selection depends the peculiar biological systems of "parasite-host" with their characteristic specificity. In the organism of the host, the whole population reacts as a peculiar biological unit;

Card 2/3

POLAND/Zooparasitology - Parasitic Worms.

G

Abs Jour : Ref Zhur Biol., No 1, 1959, 943

Pseudophyllidea become intestinal parasites of fish-eating mammals, preserving, however, the water stages of development in arthropods and fish. The problem of dry land hosts can be significantly complicated, due to the inclusion of supplementary and facultative hosts as well as to the elimination of intermediate and final hosts. Thus, for example, Archigetes is a neotenia larva which multiplies in its ancient intermediate host - the tubifex worm - and which has lost its terminal host (apparently, a vertebrate); in the Caryophyllaeas and Amphyllina the second intermediate host becomes the final, while the original final died out. The rudimentary tail appendage of the proceroid of the Pseudophyllidea, supplied by embryonic hooks of the cercomere, is a homolog of the attached disc of the ectoparasitic trematode and confirms the general derivation of the Pseudophyllidea and Monogenea. In the formation of tapeworms

Card 2/3

- 10 -

POLAND/Zooparasitology - Parasitic Worms.

G

Abs Jour : Ref Zhur Biol., No 1, 1959, 943

Author : Michajlow Wlozimierz

Iner : -

Title : Origin of Complex Cycles in the Development of the Tape-
worm

Orig Pub : Kosmos (Polska), 1957, A6, No 4, 337-360

Abstract : This is a discussion between supporters, who maintain that the final host has priority and the intermediate host is secondary (Loos, Mordvilko, Yanitskiy, Mikhaylov, etc), and supporters of the reverse theory (Leuckart, Shimkevich). Literary data are given on the origin of the cycles of development and the change of host in the cestodea. One of the oldest groups of cestodea is the Pseudophyllidea, originally parasitic in fish and linked by its development to water invertebrates. With the migration of vertebrates to dry land some of the

Card 1/3

MICHAJLOW, Włodzimierz

Parasitic adaptation of *Astasia cyclopis* Michajlow 1956
(Flagellata) Wiadomosci parazyt., Warsz. 2 no. 5 Suppl:
229-230 1956.

1. Zaklad Parazytologii PAN.
(MASTIGOPHORA,
Astasia cyclopis, parasitic adaptation (Pol))

MICHAJLOW, Wlodzimierz (Warszawa)

Method of investigation of the development of Pseudophyllidea
in first intermediate host. Wiadomosci parazyt., Warsz. 2 no.5
Suppl:227-338 1956..

1. Zaklad Parazytologii PAN.
(TAPEWORMS,

Pseudophyllidea in first intermediate host, method of
study (Pol))

MICHAJLOW, W.

Problem sessions as a method of planning research work. p. 18.
MONOGRAPHIAE BOTANICAE. (Polskie Towarzystwo Botaniczne)
Warszawa. Vol. 1, no. 1, Jan./ Mar. 1956.

SOURCE: East European Accessions List (EEAL), Library of congress
Vol. '5, No. 12, December 1956.

MICHAJLOW, W.

"Some Problems of Regeneration." p. 41 (Nauka Polska. Vol. 1, no. 4, Oct./Dec. 1953
Warszawa.)

Vol. 3, no. 6
SO: Monthly List of East European Accessions./Library of Congress, June 1954, Uncl.

MICHAJLOW, WLODZIMIERZ

Michajlow, Wlodzimierz, ed. Przyrodnicze podstawy pogladu na swiat;
wyklady wszechnicy radiowej. Opracowali: Buras Bronislaw (et. al.)
Wyd. 2. popr. i uzup.) Warszawa, Biuro Wydawn. Polskiego Radia, 1951.
364 p. (Vision of the world based on science; lectures in the courses of
Wszechnica Radiowa)

SO: Monthly list of East European Accessions, LC, Vol. 3, No. 1,
Jan. 1954, Uncl.

MICHAJLOW, WLODZIMIERZ

Michajlow, Wlodzimierz Nauka Związku Radzieckiego, Kraju socjalizmu.
Warszawa, Książka i Wiedza, 1951. 37 p. (Soviet Science, the science of
a socialist country)

SO: Monthly list of East European Accessions, LC, Vol. 3, No. 1,
Jan. 1954, Uncl.

POLAND

MICHAJLOW, Wlodzimierz, Prof. Dr.

Head, Dept. of Parasitology, Polish Academy of Sciences (Zaklad Parazytologii PAN), Warsaw

Warsaw, Acta parasitologica polonica, Fasc. 30, Sept 1965, pp 295-312

"Problems of evolution of life cycles of some species of Euglenoidina (Flagellata), the parasites of Copepoda."

07230-57

ACC NR: AP6023214

these organizations are described. New methods involve the idea of an internal industrial market and the elimination of production without gain, increased autonomy for management of enterprises for direct contact with suppliers and buyers, direct sale of produced goods to state organizations or cooperatives, write-off of uneconomic equipment, and development of a market for means of production. ()

SUB CODE: 05/ SUBM DATE: none/ ORIG REF: 003

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Card 2/2

L 07230-67 EWP(c)/EWP(k)/EWP(h)/EWP(l)/EWP(v)

ACC NR: AP6023214

(A)

SOURCE CODE: PO/0065/66/000/003/0092/0096

AUTHOR: Michajlow, G. (Master of arts)

ORG: none

TITLE: Present Soviet theories and concepts of organization in the field of materials supply

SOURCE: Gospodarka materialowa, no. 3, 1966, 92-96

TOPIC TAGS: economic organization, commerce, social structure

ABSTRACT: Theories developed in the Soviet Union before and after the August 1965 Plenary Session of the Central Committee of the Communist Party are presented and their consequences for the economy are described. The article is based on published papers and on notes and recordings taken at lectures. New economic concepts are based particularly on the proposed marketing of means of production and exchange of equivalent values, and acceptance of such exchange as a normal procedure in the socialist economy. Essential differences from exchange of consumer goods were emphasized in the discussion. Means of production cannot be sold in unlimited quantity, no change of ownership takes place since the state remains the sole owner of such goods, the buyer is not anonymous as in the sales of consumer goods, and no exchange of cash is involved in the procedure. The present organization of the Soviet supply system by both central and territorial apparatus and the historical development of

Card 1/2

MICHAJLOW, A.I. [Mikhaylov, A.I.]; FOMIN, A.A.

Education of specialists for scientific and technical information
in the Soviet Union. Przegl techn 84 no.45:4 10 N '63.

1. Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii.

MICHAJLOW, A. [Mikhaylov, A.]; POLUSZKIN, W. [Polushkin, V.]

"Referativnyi zhurnal" in 1964. Przegl techn 24 no.45:2 10 H
'63.

1. Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii.

MICHAJLOW, A.

For exemplary scientific and technological information service.
Przegl tech no.3:5 17 Ja '62.

2 ①
CZECHOSLOVAKIA

SEDLAK, J; LANGER, P; MICHAJLOVSKIJ, N

Institute of Endocrinology, Slovak Academy of Sciences
(Endokrinologicky ustav Slovenskej akademie), Bratislava
(for all)

Bratislava, Bratislavské lekárske listy, No 1, January 1966,
pp 9-16

"Cabbage goitrogens and the possibilities of reducing their
level by intervention during the vegetation period."

CZECHOSLOVAKIA:

SEDLAC, J., MICHALOVSKIS, K., KALOGAI, S., Czechoslovak Academy of Sciences, Endocrinological Institute of the Slovak Academy of Sciences (CSAV, Endokrinologický ústav Slovenskej akadémie vied), Bratislava.

"Effect of a Lowered Sulphate Intake on the Sulphate Utilization in Winter Cabbage"

"Correlation Between Plant Goitrogenicity and Sulphur Utilization IV."

Bratislava, Biologia, Vol. 18, No. 3, 63, pp 213 - 220.

Abstract (Authors' English summary modified): Experiments were conducted in growing cabbage with a minimum supply of sulphate in fertilizer and with an excess of it. The total content of S was several times higher in plants supplied with excess of sulphates. The nutritional value of the cabbage was however the same in both cases.
2 Figures, 5 Tables, 13 Western, 4 Czech, 1 Russian references.

1/1

~~LANZER~~, P.; SEDLAK, J.; MICHAJLOVSKIJ, N.

On strumigenic substances in food from the viewpoint of our experimental studies. Bratisl. lek. listy 42 no.6:330-334 '62.

1. Z Endokrinologickeho ustavu SAV v Bratislave, riaditel MUDr. J. Podoba, C. Sc.

(GOITER etiol) (VEGETABLES chem)
(THIOCYANATES toxicol)

MICHAJLOVSKIJ, NikolaJ, inz.; STUKOVSKY, Robert, inz.; NEMETH, Stefan, dr., C.Sc.

Effect of the composition of feeds on the content of rhodanides in
cow's milk. Biologia 16 no.6:459-468 '61.

1. Endokrinologicky ustav Slovenskej akademie vied, Bratislava, ulice
Obrancov mieru 1/a.

(Milk) (Thiocyanates)

MICHAJLOVSKIJ, N.: KALOCAI, S.: SEDIK, J

"Effect of a higher intake of sulfates on the utilization of sulfur by winter cabbage: relationship between the strumigenous property of plants and their sulfur utilization. I."

BIOLOGIA, Bratislava, Czechoslovakia, Vol. 14, no. 1, 1959

Monthly list of East Europe Accessions (EEAI), 10, Vol. 8, No. 6, Sept 59
Union

CA MICHAJLOVSKIJ, N.

The baking quality of wheat flours. L'udovit Matherney and Nikolaj Michajlovskij (Research Inst. Food Ind., Bratislava, Czech.). *Chem. Zvesti* 4, 268-82(1950).—The value of Chopin extensograph and Hunkoczy Brabender farinograph is compared with gluten, the quality of which is expressed mathematically, in the com. evaluation of wheat flours.
Jan Micka

L 1634-66

ACCESSION NR: AP5024262

ASSOCIATION: [Stefanov, Nenov, Tomov, Zivkov, Georgiev, Popov, Michajlov] Naucno
 isledovatelaki geologiceski institut pri Glavno upravljenje po geologija i ochrana
 na zemnite nedra, laboratorja aktivacionen analiz, Sofia (Activation Analysis
 Laboratory, Scientific Research Institute of Geology, Main Administration for
 the Geology and Protection of Mineral Resources) [Tolgyessy] Katedra radiochemie
 a radiacnej chemie Slovenskej vysokej skoly technickej, Bratislava (Slovak Institute
 of Technology, Department of Radiochemistry and Radiation Chemistry) 55

SUBMITTED: 23Jan64

ENCL: 00

SUB CODE: 00, NP

NO REF SOV: 004

OTHER: 007

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 Card 2/2

L 1634-66 EWP(t)/EWP(b) DIAAP/IJP(c) JD/JG
 ACCESSION NR: AP5024262

CZ/0043/64/000/009/0661/0668

AUTHOR: Stefanov, G. (Sofia); Nenov, N. (Sofia); Tomov, T. (Sofia); Zivkov, Z. (Zhivkov, Zh.) (Sofia); Georgiev, N. (Georgiyev, N.) (Sofia); Popov, C. (Popov, Kh.) (Sofia); Michailov, M. (Mikhaylov, M.) (Sofia); Tolgyessy, J. (Tel'demhi, Yu.) (Engineer, Docent, Candidate of sciences) (Bratislava)

TITLE: Determination of gold in mineral raw materials by means of the neutron activation analysis

SOURCE: Khimicheske zvesti, no. 9, 1964, 661-668

TOPIC TAGS: gold, analytic chemistry, silicate, radiation spectrometer, radiometer, radiation chemistry, neutron irradiation, neutron flux, neutron

Abstract [Authors' German summary, modified]: A method is presented of determining gold in samples of silicates by means of the neutron activation method. Samples were irradiated in a nuclear reactor by a flux of neutrons of $2.4 \times 10^{12} \text{ n by cm}^{-2} \text{ by s}^{-1}$. The induced activity was measured by a 400-channel scintillation γ spectrometer or a B-2 radiometer. It is possible to determine gold in ore and non-ore raw materials up to the volume of 2.8×10^{-10} grams. Orig. art. has 2 graphs and 3 tables.

Card 1/2

ALEKSANDROW, Dymitr; WYSZNACKA, Wanda; MICHAJLIK, Aleksandr

Experience with the use of guanethidine in arterial hypertension with special reference to its effects on the renal function and sodium excretion. Pol. tyg. lek. 17 no.1:1-7 1 Ja '62.

1. Z II Kliniki Chorob Wewnetrznych A.M. w Warszawie; kierownik:
prof. dr med. Dymitr Aleksandrow.

(AMIDINES ther)	(ANTIHYPERTENSIVE AGENTS ther)
(KIDNEYS pharmacol)	(SODIUM urine)

MICHAJLIK, Aleksander

Effect of carbohydrates on fat absorption. II. Inhibition by carbohydrates of gastric evacuation of fat-containing food. Acta physiol. polon. 13 no.4:543-548 '62.

1. Z II Kliniki Chorob Wewnetrznych AM w Warszawie Kierownik: prof.
dr. D. Aleksandrow.
(DIGESTION) (LIPIDS) (CARBOHYDRATES) (FOOD)

MICHAJLIK, Aleksandr

Effect of carbohydrates on fat absorption. I. Studies on the transfer of dietary fats into the lymph in the thoracic duct. Acta physiol. polon. 13 no.3:339-350 '62.

1. Z II Kliniki Chorob Wewnetrznych AM w Warszawie Kierownik: prof. dr D. Aleksandrow.
(FATS metab) (CARBOHYDRATES nutrition & diets)
(LYMPH)

ALEKSANDROW, Dymitr; JANATOWSKA, Hanna; MICHAJLIK, Aleksander; RYCEROWA, Maria;
WYSZNACKA, Wanda

Effect of prednisone on sodium balance, on renal function and on
water excretion capacity in chronic circulatory insufficiency.
Polskie arch. med. wewn. 29 no.6:741-750 1959

1. Z II Kliniki Chorob Wewnętrznych A. M. w Warszawie Kierownik:
prof. dr med. D. Aleksandrow.

(HEART FAILURE CONGESTIVE, ther.) (PREDNISONE, ther.)
(WATER ELECTROLYTE BALANCE, pharmacol.)

ALEKSANDROW, Dymitr; WYSZNACKA, Wanda; CHLEBUS, Henryk; FILIPECKI, Stanislaw;
MICHAJLIK, Aleksander; RYCEKOWA, Maria.

Remote results of the treatment of pyelonephritis. Polskie arch.
med. wewn. 29 no.4:503-509 1959.

1. Z II Kliniki Chorob Wewnętrznych A. M. w Warszawie Kierownik:
prof. dr med. D. Aleksandrow.
(PYELONEPHRITIS, ther.)

ALEKSANDROW, Dymitr; WYSZNACKA, Wanda; CHLEBUS, Henryk; FILIPECKI, Stanislaw;
RYCEROWA, Maria; MICHAJLIK, Aleksander

Renal function in patients with pyelonephritis and its changes under
the influence of therapy. Polskie arch. med. wewn. 29 no.4:491-502
1959.

1. Z II Kliniki Chorob Wewnętrznych A. M. w Warszawie Kierownik:
prof. dr med. D. Aleksandrow.
(PYELONEPHRITIS, ther.)

IGNATOWSKA, Hanna; MICHAJLIK, Aleksander

Rapid method for the determination of total lipids in blood & plasma.
Polski tygod. lek. 13 no.27:1037-1038 7 July 58.

1. (Z II Kliniki Chorob Wewnętrznych Akademii Medycznej w Warszawie;
kierownik: prof. dr D. Aleksandrow). Warszawa, ul. Nowogrodzka 59,
II Klin. Chor. Wewn. A. M.
(LIPIDS, in blood
in whole blood & plasma, determ. technic (Pol))

CHLABUS, Henryk; GAJEWSKI, Jerzy; ~~MICHAJLIK~~ Aleksander

Case of complete heart block with recurrent Morgagni-Adams-Stokes attacks successfully treated with isopropylnoradrenaline. Polski tygod. lek. 13 no.21:801-804 26 May 58.

1. (Z II Kliniki Chorob Wewnętrznych A. M. w Warszawie; kierownik: prof. dr med. D. Aleksandrow) Adres: Warszawa, II Klinika Chorob Wewnętrznych Akademii Medycznej, ul. Nowogrodzka 59.

(SYMPATHOMIMETICS, ther. use

isoproterenol in complete heart block with recur. Adams-Stokes synd. (Pol))

(HEART BLOCK, ther.

same)

WYSZNACKA, Wanda; MICHAJLIK, Alekdander; FILIPECKI, Stanislaw

Water diuresis in chronic circulatory failure. Polski tygod. lek.
13 no.30:1143-1148 28 July 58.

1. (Z II Kliniki Chorob Wewnetrznych A. M. w Warszawie; kierownik: prof.
dr Dymitr Aleksandrow). Warszawa, ul, Nowogrodzka 59. II Klin. Chor.
Wewn.

(CONGESTIVE HEART FAILURE, physiol.

water diuresis & kidney funct. (Pol))

(KIDNEYS, physiol.

water diuresis in congestive heart failure (Pol))

MICHAJLIK, Aleksander; WYSZNACKA, Wanda

Effect of prolonged sleep on renal flow in hypertension.
Polski tygod. lek. 11 no.28:1241-1246 9 July 56.

1. Z II Kliniki Chorob Wewnętrznych A.M. w Warszawie; kierownik:
prof. dr. D. Aleksandrow. Warszawa, Dzielna 13.

(SLEEP, therapeutic use,
hypertension, eff. on renal blood circ. (Pol))

(HYPERTENSION, therapy,
sleep ther., eff. on renal blood circ. (Pol))

(KIDNEYS, blood supply,
eff. of sleep ther. of hypertension on renal blood flow (Pol))

CHLEBUS, H.; FILIPECKI, St.; MICHAJLIK, A.; WYSZNACKA, W.

Renal function in chronic pyelonephritis. Polski tygod. lek. 11
no.1:13-20 2 Jan 56.

1. Z. II Kliniki Chorob Wewnętrznych A M w Warszawie: kierownik:
prof. dr Dymitr Aleksandrow. Warszawa, II Kl. Chor.Wewn. A.M.,
ul. Ociski 6.

(PYELONEPHRITIS, physiol.

kidney funct. in chronic cases)

(KIDNEY FUNCTION TESTS, in various dis.
pyelonephritis, chronic)

MICHAJLIK, A., OSINSKI, T.; WIECTAWIEK, B.

Determination of the coefficient of per-abrodil clearance and renal flow rate per minute. *Poskie arch.med.wewn.* 25 no.2: 283-289 '55.

1. Z II Kliniki Chorob Wewnętrznych A.M. w Warszawie. Kierownik: prof. dr med. D Aleksandrow. II Klinika Chorob Wewnętrznych A.M. w Warszawie, ul. Nowogrodzka 59.

(KIDNEY FUNCTION TESTS,

determ. of coefficient of clearance & renal flow rate per minute.)

MICHAJDA, Jozef, mgr inz.

Experiences in the operation of high-pressure equipment in block-system
plants. Pt. 1. Energetyka Pol 14 no.3:75-78 Mr '60. (EEAI 9:8)
(Electric-power plants) (Steam)

3181 O. J. LER
 (from EtOH). In another expt., IV, obtained in addn. to III, m. 107-8° (from EtOH). Treating 2 g. HCl soln of I with 20 ml. 7% EtOH-NH₃ and evapg. the solvent yielded 0.1 g. II. EtO₂C(CH₂)₂CO₂H (m. 208°, b_p 140-4°) (44 g.) was added to 10.5 g. KOH in 700 ml. H₂O, the soln. treated with 42.5 g. AgNO₃ in 500 ml. H₂O, the Ag salt filtered, dried 4 hrs. at 100°, finally 3 hrs. at 110° and 1 mm. to give 54 g. EtO₂C(CH₂)₂CO₂Ag. This was suspended in 100 ml. CCl₄, treated during 1 hr. with 10 ml. (41.8 g.) Br, the mixt. stirred 30 min., the AgBr removed, washed with CCl₄, the filtrate washed with 50 ml. 10% Na₂CO₃, the CCl₄ disp. off, and the residue fractionated to give 24.5 g. EtO₂C(CH₂)₂Br (VII), b_p 101-3°, b_p 98-9°. Adding 25 g. VII in 10 ml. EtOH to a soln. of 14 g. KCN (94%) in 40 ml. H₂O and 70 ml. EtOH at 50°, refluxing the mixt. 45 min., distg. off the EtOH, extg. the soln. with 100 ml. Et₂O, and distg. the ext. yielded 12 g. EtO₂C(CH₂)₂CN (VIII), b_p 128-30°. Sittg. the soln. of 15.5 g. VIII in 9 ml. abs. EtOH and 100 ml. CHCl₃ at 0° with HCl, allowing to stand 4 days at room temp., distg. off the CHCl₃ in vacuo at 50°, and adding 50 ml. Et₂O to the residue gave 20 g. II, m. 38-42°. Dissolving 8 g. II in 40 ml. NH₃ (d. 0.88) gave, after 24 hrs. at room temp., 4.8 g. V, m. 217-20° (from H₂O). The analogous reaction with alc. NH₃ gave no identified product.
 M. Hudlicky

MICHAJLYSZYN, VLADIMIR
~~VLADIMIR, MICHAJLYSZYN~~

CZECH

7 Reaction of ethyl γ -carboxybutyrolimide, hydrochloride and of ethyl 4-carboxybutyrolimide hydrochloride with ammonia. B. O. Il'ek and Vladimir Michajlyszyn (Vysokomý ústav farm. biochem. Ústí nad Labem, Czechy 48, 1210-14 (1964)). Treatment of $\text{EtO}_2\text{C(CH}_2)_3\text{CONH}_2 \cdot \text{HCl}$ (I) and $\text{EtO}_2\text{C(CH}_2)_4\text{CONH}_2 \cdot \text{HCl}$ (II) with NH_3 gave a mixt. of $\text{NH}_2\text{CO(CH}_2)_3\text{C(NH}_2)_2$ (III), $\text{NH}_2\text{CO(CH}_2)_4\text{C(NH}_2)_2$ (IV), and $\text{H}_2\text{NCO(CH}_2)_3\text{CONH}_2$ (V). $\text{EtO}_2\text{C(CH}_2)_3\text{CONH}_2 \cdot \text{HCl}$ (I) (21.3 g.) was added to 11.2 g. KOH dissolved in 300 ml. abs. EtOH, the mixt. evapd. in *vacuo* to remove EtOH, the residue acidified with 20 ml. concd. HCl, the H_2O distd. off in *vacuo* at 50° , the residue mixed with 100 ml. abs. EtOH, the KCl filtered off, the EtOH distd. off in *vacuo*, and the residue heated 1.5 hrs. at $160-60^\circ$ (decarboxylation). Extrn. of the residue with EtO and washing the ext. with 50 ml. 10% Na_2CO_3 gave 6.3 g. (45%) $\text{EtO}_2\text{C(CH}_2)_3\text{CN}$ (VI), b.p. $242-7^\circ$. Satg. the soln. of 1 g. VI in 4 ml. abs. EtOH and 50 ml. CHCl_3 with HCl at 0° yielded 6.1 g. HCl salt of I, m. $89-93^\circ$ (decolor.). Treating 2 g. HCl salt of I with 100 ml. aq. NH_3 (d. 0.92) and evapg. the soln. to dryness in *vacuo* after 48 hrs. yielded 0.7 g. III, m. $147-8^\circ$.

1. Mathematical Analysis
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 94. Mathematical Climatology
 95. Mathematical Meteorology
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 97. Mathematical Hydrology
 98. Mathematical Climatology
 99. Mathematical Meteorology
 100. Mathematical Oceanography

3

① Richard D. Anderson in systems for London
in the International Journal of Systems in the Special du
production for the Corps Bull. Soc. Math. Phys. Serbe
1, no. 1-2, 31-32 (1950) (Serbo-Croatian, French
summary).
This publication of R. D. Anderson [see Math. Rev. 1951
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(1950) is presented in a short form and some remarks
added. B. S. Jandani (New York, N. Y.).

Mathematical Reviews

Vol. 12, No. 7

8000 100

MICHAILOVITS, Lehel, dr.; ROZSA, Jozsef, dr.; VISZT, Jozsef, dr.

Therapy of tuberculous vertebral inflammations. Orv. hetil.
98 no.13:331-333 31 Mar 57.

1. A Csongrádmegyei Tanács C. szent Tbc. Gyógyintézeté, Deszk
(igazgató-főorvos: Michailovits, Lehel, dr.) közleménye.
(TUBERCULOSIS, SPINAL, surg.
indic. in relation to chemother. (Hun))

MICHAILOV, Veselin.

~~Explanation~~ of seasonal worsening of diseases of the gastrointestinal tract. Cesk. roentg. 11 no.2:127-132 June 57.

1. Rentgenologicka katedra lekarske fakulty I. P. Pavlova v Plovdivu (Bulharsko), prednosa prof. Dr. Veselin Michailov.

(GASTROINTESTINAL DISEASES
seasonal worsening (Cz))

(WEATHER
seasonal worsening of gastrointestinal dis. (Cz))

MICHAILOV, Veselin, Prof., Dr.

Relation between chronic disease of the appendix and hyperglycemic conditions or diabetes respectively. Cas. lek. cesk. 94 no.22:588-592 27 May 55.

1. Z Ustavu pro obecnu roentgenologii (reditel prof. Dr. V. Michailov) pri Lekarske akademii I. P. Pavlova, Plovdiv.
(APPENDICITIS
chronic, in etiol. of diabetes mellitus)
(DIABETES MELLITUS, etiology and pathogenesis
appendicitis, chronic)

L 15619-66

ACC NR: AP6008224

chlorpromazine (largactil), 4'-fluoro-4-(1-4-hydroxy-4-(4'-chloro)-phenyl-piperidino)-butyrophenon (haloperidol) and thioproperazine (majepil) against hypoxic states of the nervous system caused by potassium cyanide and the ethyl ester salt of dimethyl-2,2,2-trichloroxyphosphoric acid (dipterex). They describe briefly also the results of the evolution of cyanic hypoxia in conjunction with the psychoanaleptic effect of a monoaminooxidase inhibitor (niamide) and with a psychoenergetic effect due to centrophenoxine. Results show that there exists a protective effect of the neuroleptics due to haloperidol and chlorpromazine. The positive effect appears if

the animals are previously in a state of "optimum catalepsy" and not in an atonic state; likewise, the doses of the poison must not exceed by too much the DL₁₀₀ amounts. The paper was presented by G. Usunoff, Member Bulgarian Academy of Sciences, 18 December 1964. Orig. art. has 5 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: none / OTH REF: 001 / SOV REF: 002

TS
Card 2/2

L 15619-66 EWA(j)/EWA(b)-2 RO
ACC NR: AP6008224

AUTHOR: Temkov, I.; Michailov, S.

SOURCE CODE: BU/0011/65/018/004/0397/0400
31

ORG: Psychiatric Department, Higher Medical Institute, Sofia

TITLE: Influence of certain psychotropic medications on the evolution of the hypoxia caused by potassium cyanide and by dipterex

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 4, 1965, 397-400

TOPIC TAGS: nervous system drug, drug effect, pharmacology, hypoxia, cyanide, tranquilizer, carbon monoxide, organic phosphorus compound, antidote, experiment animal, toxicology

ABSTRACT: During earlier studies the authors discovered that chlorpromazine can modify the evolution of hypoxias caused by CO (V"gleokisna intoksikatsiya na nervnata sistema [Carbon Monoxide Intoxication of the Nervous System], Med. i fizkultura, S., 1962) and cyanic agents (First National Conference on Experimental Medicine, Sofia, 4-7.X 1961, p. 9-10). For want of further information on the subject they carried out further experiments concerning the protective effects of three neuroleptic agents.

Card 1/2

L 15618-66

ACC NR: AP6008223

prolonged. Since protective effects due to copper ions are very faint, one is lead to the conclusion that the protective effect of ceruloplasmin is due to the action of the entire molecule of the enzyme and not to the associated copper ions. The paper was submitted by G. Usunoff, Member Bulgarian Academy of Sciences, 18 December 1964. Orig. art. has 3 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: none / OTH REF: 005 / SOV REF: 002

TS
Card 2/2

L 15618-66

ACC NR: AP6008223

SOURCE CODE: BU/0011/65/018/004/0393/0396

AUTHOR: Temkov, I.; Michailov, S.; Bojkov, B.

ORG: Psychiatric Department, Higher Medical Institute, Sofia

TITLE: Protection effect of the ceruloplasmin (p-diphenol-O sub 2-oxydoreductase) during cyanic hyposias

SOURCE: Bulgarska akademiya na naukite, Doklady, v. 18, no. 4, 1965, 393-396

TOPIC TAGS: hypoxia, rabbit, cyanide, enzyme, pharmacology, drug effect, antidote, toxicology

ABSTRACT:

The results of the study of the protective role of ceruloplasmin during hypoxia caused by potassium cyanide are presented. Results show beyond doubt that the increased activity of ceruloplasmin in the blood offers a degree of protection against cyanic hypoxia induced in rabbits by absolutely lethal doses of potassium cyanide (5-10 mg/kg). The protective effect following an intravenous introduction of the compound is found only if the increased activity of ceruloplasmin is stable and

Card 1/2

S/194/61/000/012/064/037
D201/D303

AUTHOR: Michailov, M.

TITLE: Electron microscope study of photosensitive layers of PbS

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1961, 38, abstract 12G241 (Etudes au microscope électronique des couches de PbS photosensibles. Dokl. Bolg. AN, 1960, v. 13, no. 2, 143-146)

TEXT: The microstructure of photosensitive PbS layers was studied from collodion and SiO₂ images. In certain cases a helical growth of microcrystals was observed. A relationship between the photo-effect and the structure was observed for layers, whose molecular stream was at 45° with respect to the glass base. /-Abstractor's note: Complete translation. /

Card 1/1

EXCERPTA MEDICA Sec.15 Vol.11/4 Chest Diseases April 58
MICHAÏLOV, G.

823. MORPHOLOGICAL CHANGES OF THE LUNGS IN PNEUMOCYSTIS PNEUMONIA - Über die morphologischen Veränderungen der Lungen bei der Pneumozystispneumonie - Michailov G. Inst. für Mütter- und Kinderschutz, Min. für Volksgesundh. und Soz. Fürsorge, Sofia - ZBL. ALLG. PATH. PATH. ANAT. 1957, 96/3-4 (146-149) Illus. 2

During the last 2 yr., 20 cases of so-called pneumocystis pneumonia in premature children have been examined. The macroscopical picture is well-known. Histological examination showed in the alveoli, besides desquamated alveolar epithelium, a large amount of Pneumocystis carinii, with as a result hyperaemia of the capillaries and oedematous imbibition ('inflammatory reaction') in the interalveolar septa, besides new-formation of immature cells of the myeloid and lymphatic series ('haemopoietic reaction'). Histiocytic cells were also found, but typical plasma cells were not observed.

Kucsko - Vienna (V, 15)

MARKU, Bernard, ing.; MICHAIL, Emil, ing.; PALADE, Joniel, ing.; DONOS,
Anatoli, ing.

Compensating the cement industry peak load. Izari energia 5
no.3:68 M '64.

NICHAZAK, S.

The load of impulse as a function of overloading in a. b.
counter with a cut-off of metal and glass. In French. p. 15.
ACTA PHYSICA (Warsaw). Warszawa. Vol. 11, No. 2, 1966.

Source: East European Accessions List (EAL) Library of Congress.
Vol. 5, No. 11, August. 1966.

SOCHA, Josef; BASNAK, Vlastimil; SLAMA, Josef; BURIANEK, Ludevit; KREMR, Milan; HRABOVSKY, Vaclav; MICHAEL, Radil, inz.; ONDRACEK, Jaroslav; PEKTOR, Vladimir, inz.

Conference of the Czechoslovak Scientific Technical Society on the present conditions and outlook for development of the tanning industry. Kozarstvi 12 no.12:371-373 D '62.

1. N.p.Svit, Otrokovice (for Socha, Basnak).
2. N.p. Svít, Gottwaldov (for Slama).
3. N.p. Kozeluzne, Bosany (for Burianek).
4. Vyzkumny ustav kozedelný, Otrokovice (for Kremr, Hrabovsky, Michael, Ondracek and Pektor).

4-49-5-4
 Michael J. H. Conditions involving at present of the
 Russian sphere. Bull. Acad. Polon. Sci. Cl. II.
 1 (1955) 135-177. XII (Russian summary)
 Soient A et B deux sous-ensembles fermés d'un n -
 sphère euclidien S^n qui $A \neq S^n$ et soit une application
 continue telle que $f(A) \supset B$, $f(B) \subset A$ et que
 f est homéomorphe sur $f(A)$. Des lors on se servait de
 quelques résultats sur le degré des applications continues.
 l'auteur démontre qu'on a $f(f(A)) = f(A)$ et donc
 $f(A) = B$. C'est une réponse affirmative pour une
 conjecture de M. G. Karasik. M. Kuratowski

1-FW

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MILGROM, F.;CZYZEWSKI, K.;FALKIEWICZ, A.;MICEWICZOWNA, M.;MATEJ, H.;TOKARZ, F.

Studies on immunology of grafts. Polski tygod. lek. 8 no.24:841-846
15 June 1953. (CIML 25:1)

1. Of the Institute of Microbiology (Head--Prof. L. Hirszfeld, M.D.),
of the First Surgical Clinic (Head--Docent K. Czyzewski, M.D.) and the
Second Internal Clinic (Head--Prof. K. Falkiewicz, M.D.), Wroclaw Medical
Academy.

JANKOVIC, M.M.; MISIC, V.; POPOVIC, R.; DANON, J.; RADMI . S.; JOVANOVIC, B.;
ZABIJAKIN, V.; MICEVSKI, K.; MARINOVIC, R.Z.; DIKLIC, N.; NIKOLIC, V.;
PAVLOVIC, Z.; TATIC, B.; BLECIC, V.; STJEPANOVIC, L.; CEROVIC, M.

Review of periodicals; botany. Bul se Youg 9 no.4/5:139-140
Ag-0 '64.

MICEVSKI, K.

Here and there some pieces of the Church of St. John the Evangelist.
Young 9 no.3:71-72. 1974.

1. Botanical Institute, Faculty of Natural Sciences and Mathematics,
University of Skopje, Skopje.

MICEVSKI, K.

Drosera rotundifolia L. in the flora of Macedonia. Bul se Youg
9 no.1/2:10-11 F.-Ap '64.

1. Botanical Institute, Faculty of Natural Sciences and Mathematics,
University of Skopje, Skopje.

MAYER, Ernest; MICEVSKI, KIRIL

A contribution to the evolution of *Hordeum narivum* Hald.,
and *Hordeum hystrix* Roth. Biol Inst 12:51-58 1964.

I. Biologic Institute of the University of Ljubljana, Ljubljana,
and Botanical Institute of the Faculty of Natural Sciences and
Mathematics, Skopje. Submitted July 31, 1964.

MICEV, NIKOLA

Review of Applied Mycology
Vol. 33 Mar. 1954

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MICEV (N.) & MISOVSKI (M.). Микробиолошко испитување на црвениците во Скопје. [Microbiological examination of red soils round Skoplje] - *Annua. (Fac. Agron. Silvic.) Agron. Skoplje*, 3 (1949-50), pp. 65-82, 1953. [English summary.] (2)

Six samples of cultivated and uncultivated red soil (pH 6.8) from around Skoplje, Yugoslavia, were examined by the direct microscopic method, using smears of soil stained with carbol erythrosin for four minutes over a boiling water bath, and the agar plate method [cf. *R.A.M.*, 32, pp. 590, 643]. The media recommended by A. Cunningham (*Practical Bacteriology*, third edition, London, 1947) was used for plating. The total number of microorganisms detected (in millions per gm. soil) ranged from 248 to 1,470 by the direct method and 2,810 to 42,650 by plating. Bacteria were the most numerous, followed by actinomycetes. Fungi, ranging from 60,000 to 1,630,000 per gm. soil, formed about 1 to 3.8 per cent. of the total red soil microflora investigated.

NEOLITOL A

Philosophic microfilm of some early varieties of Neolithol A.
(ZELJISIS I SILJIS, SOU. N. S. FL. 1, Vol. 2, No. 3, Sept./Oct. 1955,
Belgrad, Yugoslavia)

SO: Monthly list of East European occasions, (1955), 10, Vol. 1, No. 1,
Apr 1955, Uncl.

FILDISEVSKI, P.; KALICANIN, P.; JOVANOVIĆ, T.; MICEV, M.

On some problems of remote sequelae from cerebrocranial injuries.
God. zborn. med. fak. Skopje 11:99-117 '64.

1. Neuropsihijatrijska klinika medicinskog fakulteta, Skopje
(upravnik: prof. dr. Petar Filisevski).

MICESCU, L. ; GEORGESCU, S.

Horizontal transportation in building yards. p. 139

REVISTA CONSTRUCTIILOR SI A MATERIALELOR DE CONSTRUCTII. (Asociatia Stiintifica a Inginerilor si Technicienilor din Romania si Ministerul Constructiilor si al Materialelor de Constructii) Bucuresti, Rumania Vol. 11, no. 3, Mar. 1959

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Uncl.

MICELMACHER, A.

Mercury poisoning in dental offices in Vilnius. Sveik. apsaug. 6
no.9(69):10-15 S '61.

1. Vilniaus Epidemiologijos ir higienos m. t. institutas. Direktorius
med. m. kand. P. Lazutka.

(MERCURY toxicol) (DENTISTRY)
(OCCUPATIONAL DISEASES)

MICEKOVA, M.;MICEK, E.

Role of the cervical spine in certain eye diseases. Cesk. ofth.
16 no.1:22-28 Ja '60

1. Klinika pre choroby ocne lek. fakulty U. P. J. Safarika v
Kosiciach, predn. prof. MUDr. Jozef Pajtas. Ortopedicka klinika
lek. fakulty U. P. J. Safarika v Kosiciach, prednosta doc. MUDr.
M. Haluzicky.

(SPINE dis.)

(EYE DISEASES compl.)

CERVENANSKY, J.; KALMAN, E.; MICEK, V.; MAAR, D.; MAROVANSKY, V.;
SKROVINA, B.

Teratogenic influences on chick embryos. Acta chir. orthop.
traum. Cech. 31 no.4:304-312 Ag '64.

1. Ortopedická klinika Lekarskej fakulty Univerzity Komenského
v Bratislave, (prednosta prof. dr. J. Cervenansky) a Jazykový
ústav hydinarový Československe akademie ved. v Bratislave
Bunaji (prednosta dr. V. Landau).

BUDZANOWSKI, A., GLOTOWSKI, K., JARCIYK, L.; LAZARSKA, R.; MICEK, S.
NIEWODNICZANSKI, H.; STRZALKOWSKI, A.; WROBEL, Z.

Energy dependence of the elastic scattering of alpha particles
on ^{40}Ca nuclei up to 10^9 eV. Inst fiz jadr report no. 031-40
'65.

1. Institute of Nuclear Physics, Krakow, and Institute of Physics
of the Jagiellonian University, Krakow.

BUDZANOWSKI, A.; GROTOWSKI, K.; MICEK, S.; NIEWODNICZANSKI, H.; SLIZ, J.;
STRZALKOWSKI, A.; WOJCIECHOWSKI, H.

Elastic scattering of 24.7 MeV alpha particles. Inst fiz jadr
report no.347:1-46 My '64.

1. Institute of Nuclear Physics, Krakow and Institute of Physics,
Jagiellonian University, Krakow.

L 01180-66 EWP(c)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWP(l)/EWA(c)/ETC(m) WW/JD/HW

ACCESSION NR: AP5024850

CZ/0078/65/000/009/0020/0020

AUTHOR: ^{44 55}Tomis, L. (Engineer, Candidate of sciences) (Ostrava); ^{44 55}Krejčík, M. (Doc-⁴⁶cent, Doctor, Engineer) (Frydek-Mistek); ^{44 55}Micek, P. (Engineer) (Ostrava)

TITLE: Method of nondestructive inspection for laminations in sheet, plate, and strip. CZ Pat. No. 307-65 ^{44 55}

SOURCE: Vynálezy, no. 9, 1965, 20

TOPIC TAGS: ⁴⁶steel sheet, steel strip, steel plate, inspection, nondestructive inspection, testing, nondestructive testing

ABSTRACT: This patent introduces a method of continuous nondestructive inspection of sheets, plates, and strips for laminations caused by ingot defects such as cavities, blow holes, and nonmetallic inclusions. According to this method, the article inspected is brought to a temperature just above that of the Curie point and any laminations are detected by a difference in magnetic properties as compared to those of sound material.

[DV]

ASSOCIATION: none

SUBMITTED: 16Jan65

NO REF SOV: 000

Cord 1/1 ⁴⁶

ENCL: 00

OTHER: 000

SUB CODE: IE, MM

ATD PRESS: ⁴⁶4103

MICEK, Miroslav, promovany ekonom

Workshop, sociology, sociological research. Podn org 19 no.3:
123-126 Mr '65.

1. Higher School of Economics, Prague.

TOSIL, Tomas; MICEK, Matej, inz.

Supply canal for the hydro-electric power station Miksova.
Inz stavby 10 no.11:403-406 N '62.

1. Vahostav, n.p., stavebni sprava Miksova.

P/039/60/000/011/002/002
A221/A026

Rolling Mill Practice; Exploitation and Modelling of Soaking Pits

damaged, whilst ingots in the central part were not hot enough. With four-burner soaking pits the matter was found to be entirely different. Stream of hot gas flowing from opposite burners clashes in the centre of the combustion chamber above the ingot heads and finds the escape route through the centre of the soaking pit between all ingots and out to the exit pipes. Because of this, all ingots are evenly heated, the refractory lining does not suffer excess overheating and the increased efficiency already mentioned takes place. Simple and cheap modification of the heating system allows for a considerable saving in gas consumption and for increase of plant output. There are 7 photographs.



Card 3/3

P/039/60/000/011/002/002
A221/A026 ✓

Rolling Mill Practice; Exploitation and Modelling of Soaking Pits

opposite each other. At first, three rows of ingots were placed in the pit, but heating of them was not satisfactory. With four rows of ingots, the result was even worse. At the plant in Trzyniec, the heating method of the soaking pit was modified by replacing two long-flame burners by four short-flame ones; they were placed in pairs on two opposite walls of the pit above the ingot heads, but each pair was facing exactly the opposite pair. When so modified, the soaking pit was put into operation and the result was astonishing. Heating of ingots was more even and, at the same time, gas consumption dropped by 15%. Taking into consideration the fact that more ingots were heated in one charge, the real efficiency of the modified pit was by 50% greater than that of the conventional Amsler type soaking pit. In order to find the explanation for this phenomenon a hydraulic test was carried out on a model. A scale model of the pit (1 : 10) was made of transparent material and the flow of gas was imitated by water with rape seeds floating in it. It was found that in the two-burner type soaking pit, the hot gas flowing above the ingot heads impinged on the opposite wall and, flowing down between the wall and the outer row of ingots, escaped through the exit pipes near the bottom of the pit, practically by-passing its centre. This explains the lack of uniformity in heating the ingots. The outer row of same was overheated and at the same time the lining of the pit

Card 2/3

P/039/60/000/011/002/002
A221/A026

AUTHORS: Czernoch, S.; Repisky, I.; Micek, M.
TITLE: Rolling Mill Practice; Exploitation and Modelling of Soaking Pits
PERIODICAL: Hutnik, 1960, No. 11, pp. 441 - 444

TEXT: The focal point of this article is the description of research carried out at some of the Czechoslovak metallurgical plants, in order to find out the reason of Amsler type soaking pit failures and how, after having found it, the matter was to be put right. The reason of publishing this article is to familiarise wide circles of Polish rolling mill engineers with this interesting achievement. This article is the reprint of a paper, read in December 1959 during a meeting of SITPH in Katowice by S. Czernoch, Professor at the Politechnika (Polytechnical Institute) in Kosice, CSR. The paper was translated by Andrzejewski, Roman, Doctor of Engineering, deputy professor at the Akademia Górniczo Hutnicza (Mining and Metallurgical Academy) in Cracow. Some new ingot rolling mills were put into operation in Trzyniec, Konczyce and Witkowice in 1951, together with their soaking pits built according to the well known pattern of Amsler type pits, with two long-flame burners. The burners were fitted above the heads of the ingots on opposite walls, but not

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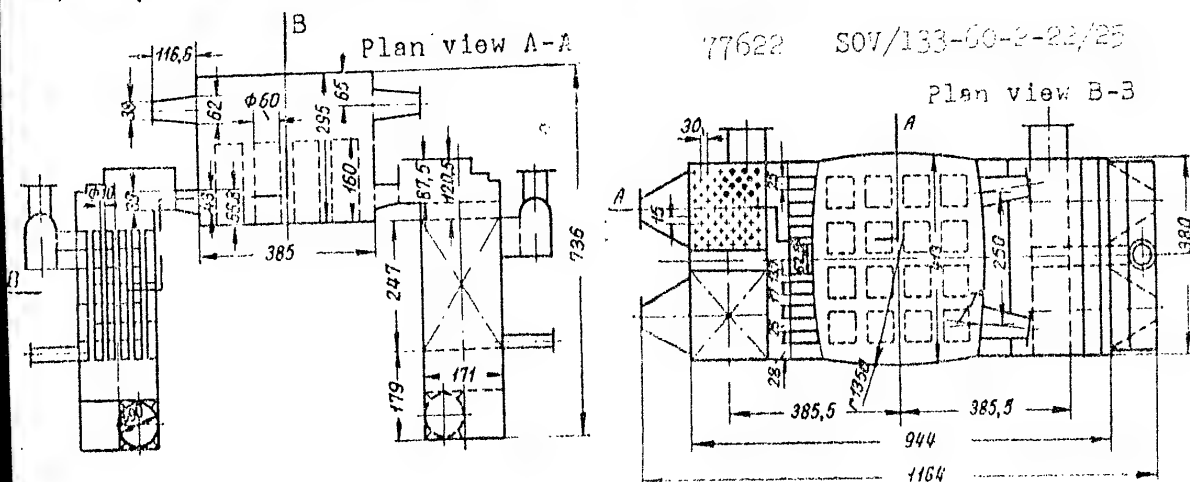
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arrangement of ingots the bottom is utilized from 46 to 56%. A greater variety of differently shaped ingots can be heated, increasing pit productivity by about 1/4 as seen at Trzhinets Plants. The authors studied the movement of combustion products and evaluated heating efficiency in two-way fired pits versus four-way fired pits in models (1:10 in relation to industrial pits). Water with mustard seeds (as settling elements) indicated the "dead" zones in the gas flow. Gas temperature amounted to 1,500° C. Evidently, the flow of combustion products between ingots at elevated temperatures accounts for increased pit productivity. Since combustion products move toward waste gas ducts above the pit bottom, dead zones form on the bottom between ingots. The authors recommend increasing duct diameters to ensure a more even heating of ingot bottoms. There are 10 figures.

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Fig. 6: Schematic diagram of soaking pit model at Trzhanets Plant (with 4 burners)

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AUTHORS: Chernokh, S. (Professor, Engineer), Repiski, I.,
Michek, M. (Engineer, Koshits, Czechoslovakia)

TITLE: Improvement of Soaking Pits by Modelling

PERIODICAL: Stal', 1960, Nr 2, pp 178 - 181 (USSR)

ABSTRACT: Upon a proposal made by Professor S. Chernokh the burner arrangement in soaking pits was changed at the Trzhinets Plant (Trzhinetskiy zavod) in Czechoslovakia; a soaking pit with a bottom area of 14.1 m² was equipped with four short-flame burners, two along each opposite endwall. Practice at Kunchitskiy plant where two-way fired soaking pits are used as well as modelling experiments, failed to confirm the opinion popular abroad that temperature is evenly distributed in that type of soaking pit. Good results were achieved with the introduction of 4 burners (see Fig. 6). Uniformity of heating was improved, heating time, fuel consumption, and loss of metal decreased. With a four-row

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